

EVOHOME · POINT-OF-ENTRY FILTRATION

Short-Chain PFAS Removal

Five short-chain perfluoroalkyl substances (PFAS) were spiked into tap water and measured before and after filtration through the EVODROP EVOhome system. The table below reproduces the measured concentrations of each substance.

PRODUCT TESTED EVOhome filtration system	SAMPLE MATRIX Tap water spiked with short-chain PFAS
ANALYSIS PERIOD 5 – 25 November 2024	ANALYSIS Independent accredited Swiss laboratory
COMMISSIONED BY Evodrop AG · Birkenstrasse 21 · CH-8306 Brüttisellen	METHOD LC-MS/MS

Results

PARAMETER	UNIT	BEFORE FILTRATION	AFTER FILTRATION	LOD / LOQ	REMOVAL RATE
SHORT-CHAIN PERFLUOROALKYL SUBSTANCES					
Trifluoroacetate (TFA)	µg/l	0.738 ± 0.222	n.d.	0.050 / 0.100	> 93 %
Perfluoropropionic acid	µg/l	0.383 ± 0.115	n.d.	0.015 / 0.030	> 96 %
Trifluoromethanesulfonic acid (TFMSA)	µg/l	0.394 ± 0.119	n.d.	0.004 / 0.010	> 98 %
Perfluoroethanesulfonic acid	µg/l	0.399 ± 0.120	n.d.	0.004 / 0.010	> 98 %
Perfluoropropanesulfonic acid	µg/l	0.371 ± 0.112	n.d.	0.004 / 0.010	> 98 %

n.d. = not detectable (below limit of detection) · LoD / LoQ = limit of detection / limit of quantification (µg/l) · ± = measurement uncertainty · All parameters analysed by LC-MS/MS. Removal rate = (before – after) / before; where the filtered value was not detectable or below the limit of quantification, a conservative lower bound (>..) is calculated using the respective LoD or LoQ.

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